



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 560043610132

Group: 2633 )  
Examiner: Shi K. Li )  
Inventor: George H. BuAbbud )  
Serial No.: 09/540,955 )  
Filed: March 31, 2000 )  
Title: Bidirectional Frequency Shift )  
Coding Using Two Different Codes )  
For Upstream And Downstream )

**AMENDMENT AND  
REPLY TO OFFICE ACTION**

**RECEIVED**

FEB 12 2004

Technology Center 2600

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 4, 2003.

By Sayone Kutter

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Reply is in response to the Office Action mailed June 5, 2003. The Applicant requests reconsideration of the instant case based on this Reply.